

Flood Mitigation  
Update  
6/23/25

# VILLAGE OF MAMARONECK

# FLOOD HAZARD VULNERABILITY



## Stormwater

Aging and undersized infrastructure is not able to handle extreme rainfall events that are becoming more common. Groundwater in some neighborhoods exacerbates flooding when combined with sustained rainfall



## Riverine

Channel capacity, width, alignment and obstruction prevent stormwater from upstream communities and the village to flow into the Long Island Sound



## Coastal

Sea-level rise projections indicate that the coastal flood hazard threat will worsen, beyond existing coastal storm inundation along Long Island Sound

# FLOOD MITIGATION PROGRAM (2025)

- Potential project “inventory”
  - Scope, prioritization and cost estimation
- Flood Mitigation Committee (appointed by BOT)
- Emergency Management Working Group
  - Staff and Dept. Heads
- Maintain NFIP Community Rating System (CRS)
- Stormwater Catch Basin Inspection and Cleanout
- River Maintenance and Debris Removal
- Washingtonville Drainage Improvements
- NYSDOT; E. Boston Post Rd. at The Parkway
- Land Use and Stormwater Code Review
- Application of GIS for planning and communication
- Grant application and administration

# FLOOD MITIGATION PROGRAM (2025)

The Village has several projects pending with FEMA's Public Assistance Program

- Disaster Recovery from prior storms

The village has several applications pending for the Swift Current and FMA grant programs, and Congressionally Directed Spending

- The BRIC grant program was recently defunded

The USACE Project is moving forward with planning and design

- Regular meetings are held with project partners
- In-person site visit with Congressman Latimer and USACE
- Discussions are ongoing on agreements and cost share
- Preliminary planning and design work in progress for Ward Avenue Bridge

# FLOOD MITIGATION PROJECTS

- Removing channel restrictions and improving flood flow conveyance in the lower Mamaroneck River and Beaver Swamp Brook are essential first steps
- Not doing so could result in exacerbated flooding conditions downstream, once channel improvement and flood benching improve flood flow conveyance, increasing the flow of water downstream, where it may be restricted by narrow channel openings
- Availability of local funding for projects to improve flood flow conveyance downstream of the confluence is limited, and does not allow for mitigation without additional Federal, State and County support

# FLOOD MITIGATION PROJECTS (BRIDGES)

- **Tompkins Avenue Bridge**
  - Not a USACE project
  - Final appeal denied for FEMA Public Assistance from Ida
  - Resilient NY Study recommends a wider and elevated span, or Removal
- **Congressionally Directed Spending requested for bridge replacement**
  - Congressman Latimer, Senators Schumer and Gillibrand
- **Ward Avenue Bridge**
  - USACE project
  - Pending MOU (USACE, NYSDEC, County)
  - P/E/D, bridge demolition, channel widening and stabilization, bridge construction

# FLOOD MITIGATION PROJECTS (BRIDGES)

- **Anita Lane**
  - County-owned utility bridge downstream of the Confluence
    - Resilient NY Study recommends a wider and elevated span
    - County funding for P/E/D
- **Halstead Avenue**
  - County-owned bridge downstream of the Confluence
    - Resilient NY Study recommends a wider and elevated span
    - County funding for P/E/D
- **Metro North Railroad Bridge**
  - MTA-owned bridge downstream of the Confluence

# FLOOD MITIGATION PROJECTS (AWARDED)

- **Recently Completed**
  - Stormwater Drainage Improvements (Pending FEMA reimbursement)
    - Ralph Avenue and Gertrude Avenue
- **Shovel Ready**
  - Stormwater Drainage Improvements (FEMA funds obligated)
    - Jefferson Avenue and Wood Street
- **Acquisition and Elevations**
  - Buyout of one property (Pending w/DHSES-FEMA)
    - In progress
  - Elevation of seven properties (Pending w/DHSES-FEMA)
    - Applications submitted to Swift Current, FMA and BRIC



# GRANT FUNDING (AWARDED)

- Local Waterfront Revitalization Program
  - NYS grant received to study the entire 1.5-mile Harbor sea wall, develop recommendations and specifications for repair and reconstruction
    - Est. project cost: \$600,000
    - Grant amount: \$450,000
    - Local match: \$150,000
  - The project team will consider nature-based solutions (“Living Seawall”) vs. traditional sea wall construction in areas where that is appropriate
  - Storm surge and projected sea level rise will also be considered
  - It is anticipated that repair and reconstruction costs will be considerable

# GRANT FUNDING (AWARDED)

- High Hazard Potential Dam Program
  - NYS DEC and FEMA conditionally approved a funding proposal submitted in 2024 for rehabilitation or removal of the Mamaroneck River Dam
    - Joint proposal with Westchester Joint Water Works
    - Project Scope and cost estimate developed for removal of the dam
  - Est. project cost:     \$3,800,000
  - Grant amount:         \$2,470,000
  - Local match:          \$1,330,000 (35%)
- Discussions ongoing concerning next steps
- Consultant study and modeling of dam is in progress
- It is anticipated that full replacement cost will be considerable

# GRANT FUNDING (AWARDED)

- New York State Green Resiliency Grant (2024) (NYS EFC)
  - Floodplain Enhancement
    - NYS awarded \$6,600,000 grant for flood mitigation
      - Mamaroneck River near Ward Ave.
      - Confluence in Columbus Park
    - Channel improvements and flood bench construction
    - Budget for removal of the Station Plaza Bridge
- Station Plaza Bridge
  - Village-owned bridge at the Confluence
    - Resilient NY Study recommends a wider and elevated span, or Removal
      - Consider alternatives and funding for replacement

# GRANT FUNDING (AWARDED)

- The GRG funded project will be the largest flood mitigation project in the village in recent memory and could serve as the launchpad for a series of related projects to reduce flood risk.
  - Est. project cost: \$9,660,000
    - Project recommendation in SLR study (2024)
  - Local match: \$733,333
    - Potential for county financial assistance
  - Funding gap: \$2,325,000+
    - Submitted to NYS RWG Program
- The GRG funded project, combined with the village's Capital Budget and pursuit of additional County, State and Federal funding is intended to provide a foundation for future projects on each river, including work by USACE.

# GRANT FUNDING (PENDING)

- Resilient Watersheds Grant Program (2025) (submitted)
  - NYS share: \$9,976,250
  - Local share: \$997,625
- Project Proposal 1
  - Channel alignment at the confluence and related work
    - Est. cost: \$3,289,000
- Project Proposal 2
  - Removal of the Tompkins Avenue Bridge and related work
    - Est. cost: \$1,960,750
- Project Proposal 3
  - Removal of the Center Avenue Ped. Bridge and related work
    - Est. cost: \$5,724,125

# GRANT FUNDING (UNDER CONSIDERATION)

- Climate Smart Communities (Local Match, Varies)
  - Flood area surveillance cameras and flood data gauges
    - Select locations to be determined
  - Beaver Swamp Brook
    - Remove/Replace the Continental View Ped. Bridge
- Green Resiliency Grant (10%)
  - Sheldrake River
    - Engineering and construction of Mamaroneck Greenway (phase 1)
- Local Waterfront Revitalization Program (25%)
  - Beaver Swamp Brook
    - Remove/Replace the Continental View Ped. Bridge
- Hudson River Valley Greenway (50%)
  - Mamaroneck River
    - Develop concept design for Mamaroneck Greenway (lower Mamaroneck River)